

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
SWIFT ENERGY OPERATING, LLC - BAYOU SALE PRODUCTION FACILITY
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL AND MINOR MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on the Part 70 Air Operating Permit Renewal and Minor Modification for Swift Energy Operating, LLC, 16825 Northchase Drive, Suite 400, Houston, TX for the Bayou Sale Production facility. **The facility is located at 6972 Hwy 317 Franklin, St. Mary Parish.**

Swift Energy Operating, LLC requested a Part 70 Operating Permit Renewal and Minor Modification that is adding a compressor engine (Source 24) and deleting a compressor engine (Source 13). They are also updating the emissions based on a recent site inspection for eleven other existing compressor engines (Sources 03, 04, 05, 06, 07, 08, 09, 11, 12, 22 and 24), as well as the Flare (Source 14), Glycol Reboiler (Source 15A), and the Gas Operated Pumps (Sources 18, 19, 20, and 21). The facility fugitive's emissions (Source 17) also are being updated, due to changes at the facility.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	2.40	2.47	+0.07
SO ₂	0.17	0.23	+0.06
NO _X	1058.01	1058.17	+0.16
CO	1128.51	1127.32	-1.19
VOC	12.92	17.02	+4.10

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Monday, April 19, 2010.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed permit, and the statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed**

electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.

Additional copies may be reviewed at St. Mary Parish Library - Alex P. Allain Memorial, 206 Iberia Street, Franklin, LA 70538-4906.

Inquiries or requests for additional information regarding this permit action should be directed to David Burke, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-0034.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 16846, Permit Number 2660-00067-V2, and Activity Number PER20090001.

Scheduled for publication: Monday, March 15, 2010



BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20090001
Agency Interest No. 16846

Mr. James M. Kitterman
Vice President
Swift Energy Operating, LLC
Bayou Sale Production Facility
16825 Northchase Dr Ste 400
Houston, TX 77060

RE: Part 70 Operating Permit Renewal/Modification
Bayou Sale Production Facility - Bayou Sale Field
Franklin, St. Mary Parish, Louisiana

Dear Mr. Kitterman:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 2660-00067-V2

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:dhb
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Bayou Sale Production Facility - Bayou Sale Field

Agency Interest No.: 16846

Swift Energy Operating LLC

Franklin, St. Mary Parish, Louisiana

I. Background

Swift Energy Operating LLC, Bayou Sale Production Facility - Bayou Sale Field, an existing oil and gas production facility began operation in March, 1987. The Bayou Sale Production Facility - Bayou Sale Field currently operates under Permit No. 2660-00067-V1, issued October 23, 2006.

This is the Part 70 operating permit renewal/modification for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Swift Energy Operating LLC on July 27, 2009 requesting a Part 70 operating permit renewal/modification. Additional information dated September 25, 2009 was also received.

III. Description

The Bayou Sale Production Facility separates natural gas and condensate/crude oil from nearby production facilities, and also dehydrates natural gas prior to sales or use as a fuel. The facility handles approximately 14,600 million standard cubic feet of natural gas per year. A description of the facility is as follows:

Separation

Gas production from nearby facilities is delivered via pipeline from the field where it is compressed to pipeline pressures. There are three compression systems within the Bayou Sale Production Facility which are a low pressure system, intermediate pressure system, and a high pressure system. All compressed natural gas is commingled and sent to a Glycol Dehydration unit before being sent to sales or use as a fuel for the facility.

Dehydration

A triethylene glycol (TEG) gas dehydration unit is used to dry natural gas prior to sales or use as a fuel. TEG strips water from the wet gas in a contactor resulting in a water-rich TEG stream and a dry sales gas stream. The Glycol Reboiler removes water and additional hydrocarbons from the TEG in the regenerator. A BTEX condenser controls the water and the hydrocarbon vapors exiting the Regenerator's Still Column Vent. Emissions from the Still Column Vent are sent to a Flare. Emissions from the glycol reboiler are calculated using AP-42 factors for Natural Gas Combustion.

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Swift Energy Operating LLC
Franklin, St. Mary Parish, Louisiana**

Miscellaneous Sources

Fugitive natural gas and light liquid emissions occur from potential leaks from flanges, valves, and piping connections. Fugitive emissions are calculated using factors in American Petroleum Institute (API) Documents 4615, 4638, and 4589.

Four gas operated Diagram Pumps are utilized to transfer liquids throughout the facility. The emissions from these sources are estimated using manufacturer operating data and material mass balance.

A combustion flare is operating continually on-site. The flare achieves a 95% destruction efficiency of VOCs. Emissions from the flare are estimated using AP-42 factors for Natural Gas Combustion and proposed operating parameters.

In this permit renewal/modification, the Bayou Sale Production Facility is adding a compressor engine (Source 24) and deleting a compressor engine (Source 13). They are also updating the emissions based on a recent site inspection for eleven other existing compressor engines (Sources 03, 04, 05, 06, 07, 08, 09, 11, 12, 22 and 24), the Flare (Source 14), Glycol Reboiler (Source 15A), and the Gas Operated Pumps (Sources 18, 19, 20, and 21). The facility fugitive's emissions (Source 17) also are being updated, due to changes at the facility.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	2.40	2.47	+0.07
SO ₂	0.17	0.23	+0.06
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CO	1128.51	1127.32	-1.19
VOC *	12.92	17.02	+4.10

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
2,2,4-trimethylpentane	-	0.01	+0.01
Acetaldehyde	-	0.60	+0.60
Benzene	0.03	0.48	+0.45

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Swift Energy Operating LLC
Franklin, St. Mary Parish, Louisiana**

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
Ethylbenzene	0.003	0.03	+0.027
Formaldehyde	3.86	4.29	+0.43
n-Hexane	0.04	0.28	+0.24
Toluene	0.03	0.21	+0.18
Xylene	0.04	0.10	+0.06
Hydrogen Sulfide	<0.001	<0.001	-
Total	4.00	6.00	+2.00

Other VOC (TPY): 11.02

IV. Type of Review

This permit renewal/modification was reviewed for compliance with 40 CFR 70, Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. This facility is also an affected source under 40 CFR 60 Subpart JJJJ for Spark Ignition Internal Combustion Engines and complies with 40 CFR 63 Subpart ZZZZ NESHAP for Reciprocating Internal Combustion Engines by meeting the standards for 40 CFR 60 Subpart JJJJ.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
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Bayou Sale Production Facility - Bayou Sale Field

Agency Interest No.: 16846

Swift Energy Operating LLC

Franklin, St. Mary Parish, Louisiana

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed renewal/modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
N/A			

**AIR PERMIT BRIEFING SHEET
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Bayou Sale Production Facility - Bayou Sale Field

Agency Interest No.: 16846

Swift Energy Operating LLC

Franklin, St. Mary Parish, Louisiana

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _X	CO	VOC
Collection of Samples	8 per month					0.03
Combustion Engine Shutdown & Maintenance	24 per year					0.08
Pump Preparation	4 per year					0.01
Pipeline Preparation	100 sections per year					0.05
Vessel Preparation	1 per year					0.08
Tank Cleaning for Inspection/Service	1 per year					0.08
Filter Replacement	8 per month					0.01
Instrument Mechanical Work	52 per year					0.01
Shop Work	1 per year					0.05
Total						0.40

IX. Insignificant Activities

ID No.:	Description	Phys/Operating Data	Citation
-	Lube Oil Tanks (2)	1,025 gallons each	LAC 33:III.501.B.5.A.3
-	Lube Oil Tanks (2)	500 gallons	LAC 33:III.501.B.5.A.3
-	Mineral Spirit Tank	525 gallons	LAC 33:III.501.B.5.A.3
-	Glycol Storage Tank	4,200 gallons	LAC 33:III.501.B.5.A.3
-	Glycol Storage Tank	500 gallons	LAC 33:III.501.B.5.A.3
-	Diesel Tank	500 gallons	LAC 33:III.501.B.5.A.3
-	Hot Water Heater	0.36 MM Btu/hr	LAC 33:III.501.B.5.A.5
-	Natural Gas Furnace	0.12 MM Btu/hr	LAC 33:III.501.B.5.A.5
-	Surfactant/Degreaser Tank	125 gallons	LAC 33:III.501.B.5.A.10
-	Blue Wash Soap Tank	125 gallons	LAC 33:III.501.B.5.A.10

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Franklin St. Mary Parish, Louisiana

X. Table 1. Applicable Louisiana Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		2	5▲	9	11	13	15	21	2103	2104*	2107	2111	2113	2115	2116*	2121	29*	51*	53*	56
UNF1	Bayou Sale Field	1	1	1	1	1	3	1	3	3	1	1	1	1	1	1	3	3	1	2
EQT01	03 - Compressor Engine (1B)																			
EQT02	04 - Compressor Engine (2B)																			
EQT03	05 - Compressor Engine (3B)																			
EQT04	06 - Compressor Engine (4B)																			
EQT05	07 - Compressor Engine (6B)																			
EQT06	08 - Compressor Engine (7B)																			
EQT07	09 - Compressor Engine (1C)																			
EQT08	11 - Compressor Engine (1A)																			
EQT09	12 - Compressor Engine (5B)																			
EQT11	14 - Flare																			
EQT12	15A - Glycol Reboiler																			
FUG01	17 - Fugitives																			3
EQT14	18 - Gas Operated Pump, Wilden M15																			2
EQT15	19 - Gas Operated Pump, Wilden M15																			2
EQT16	20 - Gas Operated Pump, Wilden M2																			2
EQT17	21 - Gas Operated Pump, Wilden M2																			2
EQT13	15B - Glycol Reboiler Still Column																			1
EQT18	22 - Compressor Engine (6A)																			
EQT19	23 - Gasoline Tank																			
EQT20	24 - Compressor Engine (5A)																			

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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KEY TO MATRIX

- 1** - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2** - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3** - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Bayou Sale Production Facility - Bayou Sale Field
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Swift Energy Operating LLC
Franklin St. Mary Parish, Louisiana

X. Table 1. Applicable Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 63 NESHAP						40 CFR					
		A	K	Ka	Kb	GG	III	JJJ	KKK	LLL	A	HH	HHH	ZZZZ	HHH	52	68	70	82
JNF1	Bayou Sale Field																		
EQT01	03 - Compressor Engine (1B)																		
EQT02	04 - Compressor Engine (2B)																		
EQT03	05 - Compressor Engine (3B)																		
EQT04	06 - Compressor Engine (4B)																		
EQT05	07 - Compressor Engine (6B)																		
EQT06	08 - Compressor Engine (7B)																		
EQT07	09 - Compressor Engine (1C)																		
EQT08	11 - Compressor Engine (1A)																		
EQT09	12 - Compressor Engine (5B)																		
EQT11	14 - Flare																		
EQT12	15A - Glycol Reboiler																		
FUG01	17 - Fugitives																		
EQT14	18 - Gas Operated Pump, Wilden M15																		
EQT15	19 - Gas Operated Pump, Wilden M15																		
EQT16	20 - Gas Operated Pump, Wilden M2																		
EQT17	21 - Gas Operated Pump, Wilden M2																		
EQT13	15B - Glycol Reboiler Still Column																		
EQT18	22 - Compressor Engine (6A)																		
EQT19	23 - Gasoline Tank																		
EQT20	24 - Compressor Engine (5A)																		

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Bayou Sale Production Facility - Bayou Sale Field
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Swift Energy Operating LLC
Franklin St. Mary Parish, Louisiana

meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Bayou Sale Production Facility - Bayou Sale Field
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Swift Energy Operating LLC
Franklin St. Mary Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
UNF0001	Facility	LAC 33:III.15 Emission Standards for Sulfur Dioxide LAC 33:III.2103 Storage of VOCs	DOES NOT APPLY. Facility burns only sweet gas containing <5 ppm H ₂ S DOES NOT APPLY. Facility handles condensate crude oil prior to lease custody transfer.
		LAC 33:III.2107 VOC - Loading	DOES NOT APPLY. Facility loads crude and/or condensate prior to lease custody transfer.
		LAC 33:III.2109 Oil/Water - Separation	DOES NOT APPLY. Facility separator used in conjunction with production of crude oil and/or condensate
		LAC 33:III.2121 Fugitive Emission Control	DOES NOT APPLY. Facility is not a gas plant. No fugitive VOC monitoring is required.
		LAC 33:51 Comprehensive Toxic Air Pollutant Emissions Control Program	DOES NOT APPLY. Facility is a minor source of air toxics.
		LAC 33:III.59	EXEMPT. Oil and gas E&P facilities are exempt.
		40 CFR 52 Prevention of Significant Deterioration (PSD)	DOES NOT APPLY. Facility is an existing source and no major modification is planned.
		40 CFR 60, Subpart KKK Standards for Equipment Leaks of VOCs from Onshore Gas Plants	DOES NOT APPLY. Facility is not a gas plant. No VOC leak monitoring required for non-gas plant E&P facilities.
EQT14, EQT15, EQT16, EQT17 Gas Operated Pumps	Gas Operated Pump, Wilden M15; Gas Operated Pump, Wilden M15; Gas Operated Pump, Wilden M2; Gas Operated Pump, Wilden, M2	LAC 33:III.2115.H.1 Waste Gas Disposal	EXEMPT. Facility is in an attainment area and emits <100 tons VOC/year.
EQT1, EQT2, EQT6, EQT7	Compressor Engines IB; 2B; 7B; 5B	Specific condition regarding testing of all engines >500 hp 40 CFR 60 Subpart KKK Standards for Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants.	DOES NOT APPLY. Engine is rated less than 500 hp. DOES NOT APPLY. Facility is not a gas plant.

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Swift Energy Operating LLC
Franklin St. Mary Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Description	Requirement	Notes
EQT1, EQT2, EQT6, EQT7 Compressor Engines >500 hp.	Compressor Engines 1B; 2B; 7B; 5B	40 CFR 60 Subpart JJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	EXEMPT. Engine was manufactured prior to July 1, 2008 and has not been modified or reconstructed since June 12, 2006.
		40 CFR 63 Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines	EXEMPT. Engine was manufactured prior to July 1, 2008 and has not been modified or reconstructed since June 12, 2006.
EQT03, EQT04, EQT05, EQT07, EQT08, EQT09 Compressor Engines <500 hp	Compressor Engines 3B; 4B; 6B; 1C; 1A; 6A	40 CFR 60 Subpart KKK Standards for Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants. 40 CFR 60 Subpart JJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	DOES NOT APPLY. Facility is not a gas plant. EXEMPT. Engine was manufactured prior to July 1, 2008 and has not been modified or reconstructed since June 12, 2006.
		40 CFR 63 Subpart ZZZZ NESHAP for Stationary Reciprocating Internal Combustion Engines	EXEMPT. Engine was manufactured prior to July 1, 2008 and has not been modified or reconstructed since June 12, 2006.
EQT20 Compressor Engine Subject to 40 CFR 60. Subpart JJJ FUG01 Fugitives	Compressor Engine SA	40 CFR 60 Subpart KKK Standards for Performance for Equipment Leaks of VOC from Onshore Natural Gas Processing Plants.	DOES NOT APPLY. Facility is not a gas plant.
		LAC 33:II.2121 Fugitive Emission Control	DOES NOT APPLY. Facility is not a gas plant. No fugitive VOC monitoring is required.
		40 CFR 60, Subpart KKK Standards for Equipment Leaks of VOCs from Onshore Gas Plants	DOES NOT APPLY. Facility is not a gas plant.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

AI ID: 16846 Bayou Sale Production Facility - Bayou Sale Field
 Activity Number: PER20090001
 Permit Number: 2660-00067-V2
 Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	2660-00067	BP America Production Co	Air Permitting	01-01-2002
	2660-0075	Bayou Sale Production Facility - Bayou Sale Field	CDS Number	03-20-1987
	G-101-6562	Bayou Sale Production Facility	Historic Emission Inventory System (EIS) ID	03-03-2004
	8069	Bayou Sale Production Facility - Bayou Sale Field	Priority 1 Emergency Site	06-01-2006
		Site ID #	Solid Waste Facility No.	10-24-2001
		Arco Gas & Oil Compressor Station	TEMPO Merge	10-25-2004
Physical Location:				
		6972 Hwy 317 Franklin, LA 70538		
Mailing Address:				
		PO Box 3092 MC 2.168 WL1 Houston, TX 772533092		
Location of Front Gate:				
		29.601144 latitude, -91.522397 longitude, Coordinate Method: Lat,Long. - DMS, Coordinate Datum: NAD83		
Related People:				
		Name	Mailing Address	Relationship
		Alejandra Castano	PO Box 3092 MC 2.100B WL1 Houston, TX 772533092	Emission Inventory Contact for
		Alejandra Castano	PO Box 3092 MC 2.100B WL1 Houston, TX 772533092	Emission Inventory Contact for
		Mike Cole	PO Box 3092 Houston, TX 772533092	Responsible Official for
		Mike Cole	PO Box 3092 Houston, TX 772533092	Responsible Official for
		Joseph D'Amico	16825 Northchase Dr Ste 400 Houston, TX 77060	Responsible Official for
		Joseph D'Amico	16825 Northchase Dr Ste 400 Houston, TX 77060	Responsible Official for
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		Joseph D'Amico	16825 Northchase Dr Ste 400 Houston, TX 77060	Responsible Official for
		James Kitterman	16825 Northchase Dr Ste 400 Houston, TX 77060	Responsible Official for
		Robert Redwak	16825 Northchase Dr Ste 400 Houston, TX 77060	Emission Inventory Contact for
		Robert Redwak	PO Box 3092 MC 2.100 WL1 Houston, TX 772533092	Emission Inventory Contact for
		D. Chris Smith	PO Box 3092 MC 2.100 WL1 Houston, TX 772533092	Emission Inventory Contact for
		D. Chris Smith	2813663828 (WP)	Air Permit Contact For
Related Organizations:				
		Name	Address	Relationship
		BP America Production Co	PO Box 3092 MC 2.100B WL1 Houston, TX 772533092	Air Billing Party for
		BP America Production Co	PO Box 3092 MC 2.100B WL1 Houston, TX 772533092	Owes
		BP America Production Co	PO Box 3092 MC 2.100B WL1 Houston, TX 772533092	Operates
		Swift Energy Operating LLC	16825 Northchase Dr Ste 400 Houston, TX 77060	Air Billing Party for
		Swift Energy Operating LLC	16825 Northchase Dr Ste 400 Houston, TX 77060	Owes
		Swift Energy Operating LLC	16825 Northchase Dr Ste 400 Houston, TX 77060	Emission Inventory Billing Party
		Swift Energy Operating LLC	16825 Northchase Dr Ste 400 Houston, TX 77060	Operates

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TPOR010

General Information

AI ID: 16846 Bayou Sale Production Facility - Bayou Sale Field
Activity Number: PER20090001
Permit Number: 2660-00067-V2
Air - Title V Regular Permit Renewal

NACC Codes: 211111, Crude Petroleum and Natural Gas Extraction

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.
Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Millam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field
 Activity Number: PER20090001
 Permit Number: 2660-00067-V2
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Facility						
EQT 0001	03 - Compressor Engine 1B			413 horsepower		8760 hr/yr
EQT 0002	04 - Compressor Engine 2B			413 horsepower		8760 hr/yr
EQT 0003	05 - Compressor Engine 3B			624 horsepower		8760 hr/yr
EQT 0004	06 - Compressor Engine 4B			550 horsepower		8760 hr/yr
EQT 0005	07 - Compressor Engine 6B			730 horsepower		8760 hr/yr
EQT 0006	08 - Compressor Engine 7B			375 horsepower		8760 hr/yr
EQT 0007	09 - Compressor Engine 1C			1267 horsepower		8760 hr/yr
EQT 0008	11 - Compressor Engine 1A			930 horsepower		8760 hr/yr
EQT 0009	12 - Compressor Engine 5B			169 horsepower		8760 hr/yr
EQT 0011	14 - Flare			18.25 MM scf/yr		8760 hr/yr
EQT 0012	15A - Glycol Reboiler		.7 MM BTU/hr	.7 MM BTU/hr		8760 hr/yr
EQT 0013	15B - Glycol Reboiler Still Column/Condenser			14600 MM scf/yr		8760 hr/yr
EQT 0014	18 - Gas Operated Pump			3000 scfh		312 hr/yr
EQT 0015	19 - Gas Operated Pump			3000 scfh		312 hr/yr
EQT 0016	20 - Gas Operated Pump			900 scfh		364 hr/yr
EQT 0017	21 - Gas Operated Pump			900 scfh		156 hr/yr
EQT 0018	22 - Compressor Engine 6A			730 horsepower		8760 hr/yr
EQT 0019	23 - Gasoline Tank	24 bbl	237.25 bbl/yr	237.25 bbl/yr		8760 hr/yr
EQT 0020	24 - Compressor Engine 5A		1267 horsepower	1267 horsepower		8760 hr/yr
FUG 0001	17 - Fugitives					8760 hr/yr

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Facility							
EQT 0001	03 - Compressor Engine 1B	65.99	1523.86	.7		20	1000
EQT 0002	04 - Compressor Engine 2B	65.99	1523.86	.7		20	1000
EQT 0003	05 - Compressor Engine 3B	46.63	2197.6	1		20	980
EQT 0004	06 - Compressor Engine 4B	88.55	2044.6	.7		18	1060
EQT 0005	07 - Compressor Engine 6B	120.47	2781.72	.7		20	1019
EQT 0006	08 - Compressor Engine 7B	65.35	1508.98	.7		14	1000
EQT 0007	09 - Compressor Engine 1C	69.41	4710.01	1.2		20	1060
EQT 0008	11 - Compressor Engine 1A	153.66	3548.21	.7		18	1100
EQT 0009	12 - Compressor Engine 5B	169.44	718.63	.3		11.5	1170
EQT 0011	14 - Flare	862.4	18062	.67		70	80
EQT 0012	15A - Glycol Reboiler	21.7	1022.64	1		15	800

INVENTORIES

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field
 Activity Number: PER20090001
 Permit Number: 2660-00067-V2
 Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Facility							
EQT 0013	15B - Glycol Reboiler Still Column/Condenser	.43	.04	.1	.04	2	80
EQT 0014	18 - Gas Operated Pump	110.18	51.92	.1	.04	3	80
EQT 0015	19 - Gas Operated Pump	110.18	51.92	.1	.04	3	80
EQT 0016	20 - Gas Operated Pump	206.59	15.58	.04	.04	2	80
EQT 0017	21 - Gas Operated Pump	206.59	15.58	.04	.04	2	80
EQT 0018	22 - Compressor Engine 6A	125.68	2902.09	.7	.7	16.3	1083
EQT 0019	23 - Gasoline Tank			.17	.17	12	
EQT 0020	24 - Compressor Engine 5A	69.41	4710.01	1.2	1.2	20	1060
FUG 0001	17 - Fugitives	36.05	12	.08	.08	3	80

Relationships:

ID	Description	Relationship	ID	Description
EAT 0013	15B - Glycol Reboiler Still Column/Condenser	Controlled by	EQT 0011	14 - Flare

Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	- Internal Combustion Engines >500 hp
CRG 0002	Common Requirements Group	- Internal Combustion Engines <500 hp
UNF 0001	Unit or Facility Wide	- Facility

Group Membership:

ID	Description	Member of Groups
EQT 0001	03 - Compressor Engine 1B	CRG000000000002
EQT 0002	04 - Compressor Engine 2B	CRG000000000002
EQT 0003	05 - Compressor Engine 3B	CRG000000000001
EQT 0004	06 - Compressor Engine 4B	CRG000000000001
EQT 0005	07 - Compressor Engine 6B	CRG000000000001
EQT 0006	08 - Compressor Engine 7B	CRG000000000002
EQT 0007	09 - Compressor Engine 1C	CRG000000000001
EQT 0008	11 - Compressor Engine 1A	CRG000000000001
EQT 0009	12 - Compressor Engine 5B	CRG000000000002
EQT 0018	22 - Compressor Engine 6A	CRG000000000001

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

INVENTORIES

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field
Activity Number: PER20090001
Permit Number: 2660-00067-V2
Air - Title V Regular Permit Renewal

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1460	1460 Recip Nat Gas Comp (5,000 to 20,000 H.P.)	64.4	100 hp
0043	0043 Crude Oil and Natural Gas Production (Greater than 500 T/Yr Source)		

SIC Codes:

1311	Crude petroleum and natural gas	AI 16846
4322	Natural gas transmission	AI 16846

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field

Activity Number: PER20090001

Permit Number: 2660-00067-V2

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Facility															
EQT 0001 ₀₃	34.60	34.60	151.54	20.94	20.94	91.72	0.03	0.03	0.13	<0.01	0.01	0.14	0.14	0.14	0.60
EQT 0002 ₀₄	34.60	34.60	151.54	20.94	20.94	91.72	0.03	0.03	0.13	<0.01	0.01	0.14	0.14	0.14	0.60
EQT 0003 ₀₅	38.52	38.52	168.71	28.48	28.48	124.73	0.04	0.04	0.19	<0.01	0.01	0.02	0.28	0.28	1.20
EQT 0004 ₀₆	9.94	9.94	43.55	18.69	18.69	81.84	0.04	0.04	0.17	<0.01	0.01	0.02	0.21	0.21	0.90
EQT 0005 ₀₇	15.61	15.61	68.39	35.16	35.16	154.02	0.05	0.05	0.24	0.01	0.01	0.02	0.14	0.14	0.63
EQT 0006 ₀₈	9.76	9.76	42.73	14.36	14.36	62.90	0.03	0.03	0.13	<0.01	0.01	0.01	0.07	0.07	0.29
EQT 0007 ₀₉	78.21	78.21	342.56	57.82	57.82	253.25	0.09	0.09	0.40	0.01	0.01	0.04	0.56	0.56	2.45
EQT 0008 ₁₀	22.14	22.14	96.99	29.48	29.48	129.14	0.07	0.07	0.29	<0.01	<0.01	0.03	0.21	0.21	0.90
EQT 0009 ₁₁	4.40	4.40	19.26	4.84	4.84	21.21	0.01	0.01	0.06	<0.01	<0.01	0.01	0.03	0.03	0.13
EQT 0011 ₁₂	0.83	0.83	3.65	0.15	0.15	0.67	0.02	0.02	0.07	<0.01	<0.01	<0.01	0.16	0.16	0.71
EQT 0012 _{13A}	0.06	0.06	0.25	0.07	0.07	0.3	0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
EQT 0014 _{14B}													11.76	11.76	1.84
EQT 0015 _{15C}													11.76	11.76	1.84
EQT 0016 _{16D}													3.53	3.53	0.64
EQT 0017 _{17E}													3.53	3.53	0.28
EQT 0018 _{18F}	3.12	3.12	13.68	3.59	3.59	15.72	0.05	0.05	0.24	0.01	0.01	0.02	0.08	0.08	0.35
EQT 0019 _{19G}													<0.01	<0.01	<0.01
EQT 0020 _{20H}	5.59	5.59	24.47	7.07	7.07	30.95	0.09	0.09	0.40	0.01	0.01	0.04	0.42	0.42	1.84
FUG 0001 ₁₇													0.41	0.41	1.8

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field

Activity Number: PER20090001

Permit Number: 2660-00067-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 03	Acetaldehyde	0.01	0.01	0.04
	Benzene	0.01	0.01	0.02
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.07	0.07	0.29
	Toluene	<0.01	<0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0002 04	Acetaldehyde	0.01	0.01	0.04
	Benzene	0.01	0.01	0.02
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.07	0.07	0.29
	Toluene	<0.01	<0.01	0.01
	Xylene (mixed isomers)	0.01	0.01	0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0003 05	Acetaldehyde	0.01	0.01	0.06
	Benzene	0.01	0.01	0.03
	Ethyl benzene	0.01	0.01	0.01
	Formaldehyde	0.10	0.10	0.42
	Toluene	<0.01	<0.01	0.01
	Xylene (mixed isomers)	0.01	0.01	0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0004 06	Acetaldehyde	0.01	0.01	0.05
	Benzene	0.01	0.01	0.03
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.08	0.08	0.37
	Toluene	<0.01	<0.01	0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0005 07	Acetaldehyde	0.02	0.02	0.07
	Benzene	0.01	0.01	0.04
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.12	0.12	0.52
	Toluene	<0.01	<0.01	0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field

Activity Number: PER20090001

Permit Number: 2660-00067-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0005 07	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0006 08	Acetaldehyde	0.01	0.01	0.04
	Benzene	0.01	0.01	0.02
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.07	0.07	0.28
	Toluene	<0.01	<0.01	0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0007 09	Benzene	0.02	0.02	0.07
	Ethyl benzene	<0.01	<0.01	<0.01
	Toluene	0.01	0.01	0.02
	Xylene (mixed isomers)	<0.01	<0.01	0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0008 11	Acetaldehyde	0.02	0.02	0.09
	Benzene	0.01	0.01	0.05
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.14	0.14	0.63
	Toluene	<0.01	<0.01	0.02
	Xylene (mixed isomers)	<0.01	<0.01	0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0009 12	Acetaldehyde	<0.01	<0.01	0.02
	Benzene	<0.01	<0.01	0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.03	0.03	0.12
	Toluene	<0.01	<0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0011 14	2,2,4-Trimethylpentane	<0.01	<0.01	0.01
	Benzene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Hydrogen sulfide	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**AJ ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field****Activity Number: PER20090001****Permit Number: 2660-00067-V2****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0011 14	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	0.04	0.04	0.18
EQT 0012 15A	Acetaldehyde	<0.01	<0.01	<0.01
	Benzene	<0.01	<0.01	<0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	0.01
EQT 0014 18	2,2,4-Trimethylpentane	<0.01	<0.01	<0.01
	Benzene	0.16	0.16	0.02
	Ethyl benzene	0.03	0.03	<0.01
	Hydrogen sulfide	<0.01	<0.01	<0.01
	Toluene	0.21	0.21	0.03
	Xylene (mixed isomers)	0.16	0.16	0.02
	n-Hexane	0.34	0.34	0.05
EQT 0015 19	2,2,4-Trimethylpentane	<0.01	<0.01	<0.01
	Benzene	0.16	0.16	0.02
	Ethyl benzene	0.03	0.03	<0.01
	Hydrogen sulfide	<0.01	<0.01	<0.01
	Toluene	0.21	0.21	0.03
	Xylene (mixed isomers)	0.16	0.16	0.02
	n-Hexane	0.34	0.34	0.05
EQT 0016 20	2,2,4-Trimethylpentane	<0.01	<0.01	<0.01
	Benzene	0.05	0.05	0.01
	Ethyl benzene	0.01	0.01	<0.01
	Hydrogen sulfide	<0.01	<0.01	<0.01
	Toluene	0.06	0.06	0.01
	Xylene (mixed isomers)	0.05	0.05	0.01
	n-Hexane	0.10	0.10	0.02
EQT 0017 21	2,2,4-Trimethylpentane	<0.01	<0.01	<0.01
	Benzene	0.05	0.05	<0.01
	Ethyl benzene	0.01	0.01	<0.01
	Hydrogen sulfide	<0.01	<0.01	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field

Activity Number: PER20090001

Permit Number: 2660-00067-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0017 21	Toluene	0.06	0.06	0.01
	Xylene (mixed isomers)	0.05	0.05	<0.01
	n-Hexane	0.10	0.10	0.01
EOT 0018 22	Acetaldehyde	0.02	0.02	0.07
	Benzene	0.01	0.01	0.04
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.12	0.12	0.52
	Toluene	<0.01	<0.01	0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
EQT 0020 24	Acetaldehyde	0.03	0.03	0.12
	Benzene	0.02	0.02	0.07
	Ethyl benzene	<0.01	<0.01	<0.01
	Formaldehyde	0.19	0.19	0.85
	Toluene	0.01	0.01	0.02
	Xylene (mixed isomers)	<0.01	<0.01	0.01
	n-Hexane	<0.01	<0.01	<0.01
FUG 0001 17	Benzene	<0.01	<0.01	0.01
	Ethyl benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	0.02	0.02	0.10
UNF 0001	2,2,4-Trimethylpentane			0.01
	Acetaldehyde			0.60
	Benzene			0.48
	Ethyl benzene			0.03
	Formaldehyde			4.29
	Hydrogen sulfide			<0.01
	Toluene			0.21
	Xylene (mixed isomers)			0.10
	n-Hexane			0.28

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field

Activity Number: PER20090001

Permit Number: 2660-00067-V2

Air - Title V Regular Permit Renewal

SPECIFIC REQUIREMENTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field
Activity Number: PER20090001
Permit Number: 2660-00067-V2
Air - Title V Regular Permit Renewal

EQT 0011 14 - Flare

- 1 [LAC 33:II.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
Which Months: All Year Statistical Basis: None specified
- 2 [LAC 33:II.1105] Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
- 3 [LAC 33:II.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: Six-minute average
- 4 [LAC 33:II.501.C.6] Visible emissions monitored by visual inspection/determination continuously during a process upset event.
Which Months: All Year Statistical Basis: None specified
- 5 [LAC 33:II.501.C.6] Presence of a flame monitored by visual inspection/determination daily.
Which Months: All Year Statistical Basis: None specified
- 6 [LAC 33:II.501.C.6] Presence of a flame recordkeeping by electronic or hard copy continuously.
Which Months: All Year Statistical Basis: None specified
- 7 [LAC 33:II.501.C.6] Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack.
Which Months: All Year Statistical Basis: None specified
- 8 [LAC 33:II.501.C.6] Presence of a flame monitored by heat sensing device continuously.
Which Months: All Year Statistical Basis: None specified
- 9 [LAC 33:II.501.C.6] Opacity monitored by 40 CFR 60, Appendix A, Method 9 upon occurrence of event. Monitor during the next required visible emissions check, if visible emissions are detected for a period longer than six hours in any 10 consecutive days. If the shade or appearance of the emission is darker than 20 percent average opacity, take corrective action to return the flare to its proper operating condition, and repeat the opacity reading in accordance with Method 9 during the next required visible emissions check.
Which Months: All Year Statistical Basis: None specified
- 10 [LAC 33:II.501.C.6] Develop a corrective action plan for re-lighting the flare. Keep plan readily available for immediate implementation in the event the flare needs to be re-lit.
Flare gas: Heat content recordkeeping by electronic or hard copy annually.
- 11 [LAC 33:II.501.C.6]

EQT 0012 15A - Glycol Reboiler

- 12 [LAC 33:II.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
- 13 [LAC 33:II.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified

EQT 0013 15B - Glycol Reboiler Still Column/Condenser

SPECIFIC REQUIREMENTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field
Activity Number: PER20090001
Permit Number: 2660-00067-V2
Air - Title V Regular Permit Renewal

EQT 0013 15B - Glycol Reboiler Still Column/Condenser

- 14 [40 CFR 63.764(d)(2)(i)]
 15 [40 CFR 63.764(d)(2)(ii)]

Determine the optimum glycol circulation rate using the equation in 40 CFR 63.764(d)(2)(i). Subpart HH. [40 CFR 63.764(d)(2)(i)] Operate such that the actual glycol circulation rate does not exceed the optimum glycol circulation rate determined in accordance with 40 CFR 63.764(d)(2)(i). If unable to meet the sales gas specification for moisture content using the glycol circulation rate determined in accordance with 40 CFR 63.764(d)(2)(i), calculate an alternate circulation rate using GRL-GL YCalc TM, Version 3.0 or higher. Document why the TEG dehydration unit must be operated using the alternate circulation rate and submit this documentation with the initial notification in accordance with 40 CFR 63.775(c)(7). Subpart HH. [40 CFR 63.764(d)(2)(iii)]

- 16 [40 CFR 63.764(d)(2)(iii)]
 17 [40 CFR 63.764(d)(2)(iii)]

Submit Initial Notification: Due in accordance with the requirements in 40 CFR 63.775(c)(7). Prepare HH. [40 CFR 63.764(d)(2)(ii)] a new determination in accordance with 40 CFR 63.764(d)(2)(i) or (d)(2)(ii) and submit the information specified under 40 CFR 63.775(c)(7)(ii) through (c)(7)(v), if operating conditions change and a modification to the optimum glycol circulation rate is required. Subpart HH. [40 CFR 63.764(d)(2)(iii)]

- 18 [40 CFR 63.774(f)]
 19 [40 CFR 63.774]
 20 [LAC 33:III.2116.B.2]
 21 [LAC 33:III.2116.D]
 22 [LAC 33:III.2116.F.1]

Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep a record of the calculation used to determine the optimum glycol circulation rate in accordance with 40 CFR 63.764(d)(2)(i) or 63.764(d)(2)(ii), as applicable. Subpart HH. [40 CFR 63.774(f)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.774(b) through (e), as applicable. Subpart HH. VOC, Total \geq 85 % reduction using the methods found in LAC 33:III.2116.D. Which Months: All Year Statistical Basis: None specified Determine compliance with LAC 33:III.2116.B using the methods in LAC 33:III.2116.D.1-5, as appropriate. Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the information specified in LAC 33:III.2116.F.1.

EQT 0019 23 - Gasoline Tank

- 23 [LAC 33:III.2103.A]
 24 [LAC 33:III.2103.I]

Equip with a submerged fill pipe.
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0020 24 - Compressor Engine 5A

- 25 [40 CFR 60.4233(f)(3)]
 26 [40 CFR 60.4234]
 27 [40 CFR 60.4243(c)]

Comply with the emission standards and other requirements for new nonroad SI engines in 40 CFR 1048. Subpart JJJ. [40 CFR 60.4233(f)(3)] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJ. Demonstrate compliance with 40 CFR 60.4233(f) according to 40 CFR 60.4243(b)(2)(i) or (b)(2)(ii), except that for a non-certified engine complying according to 40 CFR 60.4243(b)(2)(i), demonstrate that the engine complies with the emission standards specified in 40 CFR 60.4233(f). Subpart JJJ. [40 CFR 60.4243(c)]

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EQT 0020 24 - Compressor Engine 5A

- 28 [40 CFR 60.4243(l)] Perform initial performance testing as indicated in 40 CFR 60.4243, if the engine is either non-certified or is not operated or maintained, along with the control device, according to the manufacturer's written emission-related instructions. Conduct subsequent performance testing, if the engine is rebuilt or undergoes major repair or maintenance. Subpart JJJ. [40 CFR 60.4243(l)]
- 29 [40 CFR 60.4243(g)] Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJ. [40 CFR 60.4244(a) through (g)] Subpart JJJ.
- 30 [40 CFR 60.4244] Conduct performance tests by following the procedures in 40 CFR 60.4244(a) through (g). Subpart JJJ.
- 31 [40 CFR 60.4245(a)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJ. [40 CFR 60.4245(a)]
- 32 [40 CFR 60.4245(c)] Submit an initial notification as required in 40 CFR 60.7(a)(1). Include the information in 40 CFR 60.4245(c)(1) through (c)(5). Subpart JJJ.
- 33 [40 CFR 60.4245(d)] Submit performance test results: Due within 60 days after each test conducted according to 40 CFR 60.4244 has been completed. Subpart JJJ. [40 CFR 60.4245(d)]
- 34 [40 CFR 63.6590(c)] Meet the requirements of 40 CFR 60 Subpart IIII for compression ignition engines or 40 CFR 60 Subpart JJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
- 35 {[LAC 33:III.1101.B]} Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 36 {[LAC 33:III.1311.C]} Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 37 {[LAC 33:III.501.C.6]} Which Months: All Year Statistical Basis: Six-minute average Stack gas concentration: Carbon monoxide monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. Which Months: All Year Statistical Basis: None specified
- 38 {[LAC 33:III.501.C.6]} Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. Equipment/operational data recordkeeping by electronic or hard copy annually. Recorded parameters are NOx, CO and O₂ concentrations in the stack gas obtained during annual testing.
- 39 {[LAC 33:III.501.C.6]} Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 40 {[LAC 33:III.501.C.6]}

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EQT 0020 24 - Compressor Engine 5A

- 41 [LAC 33:III.501.C.6] Stack gas concentration: Nitrogen oxides monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified
- 42 [LAC 33:III.501.C.6] Stack gas concentration: Oxygen monitored by portable analyzer annually (twelve months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified

FUG 0001 17 - Fugitives

- 43 [LAC 33:III.211.I] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

CRG 0001 - Internal Combustion Engines >500 hp

Group Members: EQT 0003 EQT 0004 EQT 0005 EQT 0007 EQT 0008 EQT 0018

- 44 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 45 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services.
 Equipment/operational data recordkeeping by electronic or hard copy semiannually. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during semiannual testing.
- 46 [LAC 33:III.501.C.6] Stack gas concentration: Oxygen monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified
- 47 [LAC 33:III.501.C.6] Stack gas concentration: Carbon monoxide monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified
- 48 [LAC 33:III.501.C.6]
- 49 [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 16846 - Bayou Sale Production Facility - Bayou Sale Field
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CRG 0001 - Internal Combustion Engines >500 hp

50 [LAC 33:II.501.C.6]

Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:II.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

51 [LAC 33:II.501.C.6]
 Stack gas concentration: Nitrogen oxides monitored by portable analyzer semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Maintain concentrations of NO_x in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample.
 Which Months: All Year Statistical Basis: None specified

52 [LAC 33:II.501.C.6]
 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing.

CRG 0002 - Internal Combustion Engines <500 hp

Group Members: EQT 0001EQT 0002EQT 0006EQT 0009

53 [LAC 33:II.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

54 [LAC 33:II.1311.C]
 Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

UNF 0001 - Facility

55 [40 CFR 60.]
 56 [40 CFR 63.]
 57 [LAC 33:II.1103]
 58 [LAC 33:II.1109.B]
 59 [LAC 33:II.1303.B]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Table 2 of 40 CFR 63 Subpart HH.
 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
 Outdoor burning of waste material or other combustible material is prohibited.
 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.

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UNF 0001 - Facility

- 60 [LAC 33:III.1305]
 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.
- Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority.
- During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
- Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.
- Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits.
- Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations.
- No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety.
- Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

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UNF 0001 - Facility

74 [LAC 33:III.927]

Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1:Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.

75 [LAC 33:III.929.A]

No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded.